

Title (en)

Rubber compositions and related articles having improved metal adhesion and metal adhesion retention.

Title (de)

Kautschukmischungen und daraus hergestellte Artikel mit dauerhafter Haftung an Metall.

Title (fr)

Composition de caoutchouc et objets à adhésion aux métaux améliorée et plus durable.

Publication

EP 0157078 A1 19851009 (EN)

Application

EP 85100220 A 19850111

Priority

US 57526084 A 19840130

Abstract (en)

Rubber compositions and metal-reinforced rubber ply members have improved metal adhesion and metal adhesion retention. The improvement comprises admixing from about 0.5 to about 10.0 parts per hundred rubber (phr) of bis(2-mercaptobenzothiazato) nickel with a vulcanizable rubber composition prior to combining the metal and rubber and then curing. A method for improving the metal adhesion and metal adhesion retention between a vulcanizable rubber and metal member includes the step of dispersing from about 0.5 to about 10.0 phr of nickel in a vulcanizable rubber composition prior to curing.

IPC 1-7

C08K 5/47; **C08L 21/00**; **C08J 5/10**

IPC 8 full level

C08L 7/00 (2006.01); **B29C 65/34** (2006.01); **C08J 5/10** (2006.01); **C08K 5/00** (2006.01); **C08K 5/45** (2006.01); **C08K 5/47** (2006.01); **C08L 9/00** (2006.01); **C08L 21/00** (2006.01)

CPC (source: EP US)

B29C 65/342 (2013.01 - EP US); **B29C 65/3476** (2013.01 - EP US); **B29C 66/71** (2013.01 - EP US); **C08J 5/10** (2013.01 - EP US); **C08K 5/0091** (2013.01 - EP US); **B29C 65/348** (2013.01 - EP US); **B29C 66/7212** (2013.01 - EP US); **B29C 66/72141** (2013.01 - EP US); **C08J 2321/00** (2013.01 - EP US); **Y10T 428/31678** (2015.04 - EP US); **Y10T 428/31696** (2015.04 - EP US); **Y10T 428/31826** (2015.04 - EP US); **Y10T 428/31931** (2015.04 - EP US)

C-Set (source: EP US)

1. **C08K 5/0091** + **C08L 21/00**
2. **B29C 66/7212** + **B29K 2305/00**
3. **B29C 66/71** + **B29K 2021/00**
4. **B29C 66/71** + **B29K 2007/00**

Citation (search report)

- [A] EP 0060414 A1 19820922 - FIRESTONE TIRE & RUBBER CO [US]
- [AD] GB 914787 A 19630102 - RENAULT [FR]
- [X] CHEMICAL ABSTRACTS, vol. 68, 1968, page 3020, no. 30907x, Columbus, Ohio, US; & JP-B-42 016403 (RESEARCH INSTITUTE FOR PRODUCTION DEVELOPMENT) 05-09-1967

Designated contracting state (EPC)

BE DE FR GB IT LU

DOCDB simple family (publication)

US 4511628 A 19850416; CA 1248728 A 19890117; EP 0157078 A1 19851009; ES 539937 A0 19851216; ES 8602899 A1 19851216; JP S60179433 A 19850913; ZA 85470 B 19850925

DOCDB simple family (application)

US 57526084 A 19840130; CA 472208 A 19850116; EP 85100220 A 19850111; ES 539937 A 19850129; JP 1367285 A 19850129; ZA 85470 A 19850121